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TECHNICAL DATA SHEET

GARNET 80X is a pure, natural product that consists of a group of minerals with the mineral, Garnet, as its major component. The material mined from a Garnet deposit in Keeseville, NY and consists of extremely sharp grains. It is a hard, iron free abrasive that contains less than 1% free crystalline silica. These natural properties provide a unique material for filtration and abrasive blasting or waterjet cutting applications.

Typical Chemical Analysis (%):

- Silicon Dioxide SiO2 36.0
- Iron Oxide Fe2O3 31.1
- Calcium Oxide CaO 26.0
- Aluminum Oxide Al2O3 2.9

- Magnesium Oxide MgO 1.0
- Titanium Oxide TiO2 1.0
- Zirconium Dioxide ZrO2 1.0

Typical Physical Properties:

Grain Shape...... Blocky, angular Moh Hardness > 7

Melting Point ~1300°C Solubility Insoluble

TYPICAL Gradation

Typical Analysis	80X
US Sieve #	% Retained
30	
40	.3
50	21.6
60	29.0
70	30.4
80	14.8
100	2.9
140	1.0
200	0.0
PAN	

Testimonial from Carpenter Brothers Inc

A trial comparison of the IG 80x material and a hard garnet from China.

"My customer loved the result. They were cutting a 2" pc. of steel and felt the surface finish was a good as the IOGS Garnet (IOGS produces the natural Almandine Garnet) he was buying before the shutdown".

DISCLAIMER:

The information contained in this technical data sheet is representative of the typical analysis of the product, but may vary due to sampling and or sample segregation

Opta Minerals Inc. assumes no liability arising out of the use of this product by others.

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